

ABSTRACT

1 The processor enhanced memory module PEMM can be
2 incorporated into the hardcopy image processing pipeline of
3 existing printer controllers by using the smart memory model.
4 Here the data generated from RISC based PDL interpretation or
5 pre-rasterized data can be processed in an accelerated fashion
6 into page bit maps, color space converted, and compressed by
7 the PEMM. Since the DSP on the PEMM is programmable, the
8 resolution, color space, and type of compression along with
9 other printer specific processing can have formats other than
10 those determined by the fixed functionality of the ASIC
11 devices present in the pipeline.